

Russel 09/914,424

=> fil hcaplu

FILE 'HCAPLUS' ENTERED AT 12:53:15 ON 11 AUG 2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

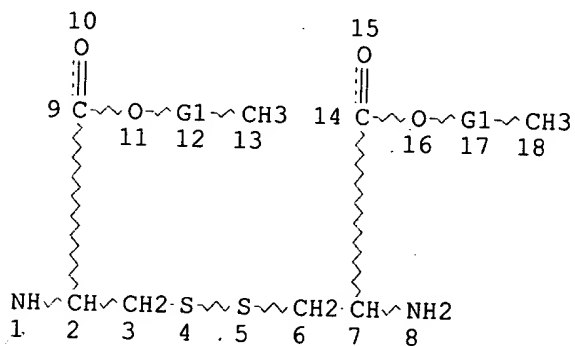
Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 11 Aug 2003 VOL 139 ISS 7  
FILE LAST UPDATED: 10 Aug 2003 (20030810/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d stat que

L1 STR



REP G1=(0-1) CH2

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L3 60 SEA FILE=REGISTRY SSS FUL L1

L4 216 SEA FILE=HCAPLUS ABB=ON L3

L5 2 SEA FILE=HCAPLUS ABB=ON L4 AND (ADHES? OR GLUE) (L) SURG?

=> d ibib abs hitrn 15 1-2

L5 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 1995:484599 HCAPLUS

Searched by M. Smith

Russel 09/914,424

DOCUMENT NUMBER: 122:222936  
TITLE: **Adhesive compositions for surgical**  
use comprising sulfur-containing polymers  
INVENTOR(S): Constancis, Alain; Soula, Gerard; Tayot, Jean Louis;  
Tiollier, Jerome  
PATENT ASSIGNEE(S): Imedex S.A., Fr.  
SOURCE: Eur. Pat. Appl., 19 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 635276	A1	19950125	EP 1994-401631	19940713
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
FR 2707878	A1	19950127	FR 1993-8964	19930721
FR 2707878	B1	19970214		
AU 9467579	A1	19950202	AU 1994-67579	19940719
US 5496872	A	19960305	US 1994-277069	19940719
CA 2128463	AA	19950122	CA 1994-2128463	19940720
BR 9402861	A	19950404	BR 1994-2861	19940720
JP 07163650	A2	19950627	JP 1994-191153	19940721
			FR 1993-8964	19930721

PRIORITY APPLN. INFO.:

AB A biocompatible, biodegradable **adhesive for surgical**  
use comprise R3S(CH2)xCH(COR1)NHCORCONHCH(COR2)(CH2)y-SR4 (R = C1-50  
hydrocarbyl; R1, R2 = OR5, NHCH(COOR7)(CH2)zSR6, NH(CH2)ySR6; R3, R4, R5,  
R6, R7= H, aliph., alicyclic, arom., CH3, C2H5). Thus, 25 g of cystine  
dimethylester (I).HCl in 400 mL dimethylacetamide was mixed with 41.2 mL  
triethylamine and 8.1 mL succinyl chloride (II) in 100mL dimethylacetamide  
and stirred for 24 h at room temp. after which the triethylammonium salt  
was sepd. and reaction mixt. was pptd. in 5L water to obtain I.II  
copolymer which was sepd. and purified. Use of title **adhesives**  
for protection of anastomoses and tissue and **adhesion** of skin in  
plastic **surgery** is described.

IT 162221-19-4DP, hydrolyzed 162221-19-4P  
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological  
study); PREP (Preparation); USES (Uses)  
(**adhesive** compns. for **surgical** use comprising  
sulfur-contg. polymers)

L5 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1994:613038 HCAPLUS  
DOCUMENT NUMBER: 121:213038  
TITLE: Crosslinkable derivatives of collagen, process for  
their preparation, and their use in the preparation of  
biomaterials for prostheses or other medical articles  
INVENTOR(S): Gagnieu, Christian  
PATENT ASSIGNEE(S): Flamel Technologies, S. A., Fr.  
SOURCE: Eur. Pat. Appl., 16 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----

Russel 09/914,424

EP 575273	A1	19931222	EP 1993-420255	19930617
EP 575273	B1	19971203		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
FR 2692582	A1	19931224	FR 1992-7692	19920618
FR 2692582	B1	19980918		
US 5412076	A	19950502	US 1993-77605	19930617
AT 160798	E	19971215	AT 1993-420255	19930617
ES 2113511	T3	19980501	ES 1993-420255	19930617
JP 06080935	A2	19940322	JP 1993-148108	19930618
PRIORITY APPLN. INFO.:			FR 1992-7692	19920618

AB Crosslinkable collagens are disclosed which are sol. in water and/or aprotic polar org. solvents; the collagens have a free or substituted thiol function on residues of cysteine or derivs. thereof (homocysteine, cysteamine, etc.), the residues being bonded to collagen at least in part via a spacer compd (e.g. a dicarboxylic acid). Prepn. of the modified collagens is also provided. The modified collagens are useful for biomaterials for medical articles (prostheses, implants, etc.). Thus, a cysteaminy succinyl collagen was prepd. using bovine atelocollagen types I and III and disuccinylcystamine. The product was used in the formulation of a gel and of a film. Ex vivo evaluation of tissue adhesion (with rabbit muscle tissue) using a product of the invention is also described.

IT 1069-29-ODP, Cystine dimethyl ester, reaction products with succinyl atelocollagen  
RL: PREP (Preparation)  
(prepn. of, for crosslinkable collagen thiol deriv. for biomaterial for prosthetic or other medical article)

IT 1069-29-0, Cystine dimethyl ester  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction of, in crosslinkable collagen thiol deriv. prepn. for biomaterial for prosthetic or other medical article)

=> select hit rn 15 1-2  
E1 THROUGH E2 ASSIGNED

=> fil reg

FILE 'REGISTRY' ENTERED AT 12:58:56 ON 11 AUG 2003  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 8 AUG 2003 HIGHEST RN 563538-18-1  
DICTIONARY FILE UPDATES: 8 AUG 2003 HIGHEST RN 563538-18-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

Searched by M. Smith

Russel 09/914,424

=> s el-e2

1 1069-29-0/BI  
(1069-29-0/RN)  
1 162221-19-4/BI  
(162221-19-4/RN)

L6 2 (1069-29-0/BI OR 162221-19-4/BI)

=> d ide can 16 1-2

L6 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 162221-19-4 REGISTRY  
CN L-Cystine, dimethyl ester, polymer with butanedioic acid (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

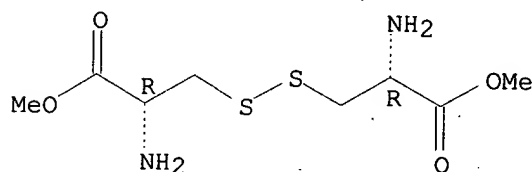
CN Butanedioic acid, polymer with L-cystine dimethyl ester (9CI)  
FS STEREOSEARCH  
MF (C8 H16 N2 O4 S2 . C4 H6 O4)x  
CI PMS  
PCT Polyamide, Polyamide formed, Polysulfide  
SR CA  
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

\*\*RELATED POLYMERS AVAILABLE WITH POLYLINK\*\*

CM 1

CRN 1069-29-0  
CMF C8 H16 N2 O4 S2

Absolute stereochemistry.



CM 2

CRN 110-15-6  
CMF C4 H6 O4

HO<sub>2</sub>C-CH<sub>2</sub>-CH<sub>2</sub>-CO<sub>2</sub>H

1 REFERENCES IN FILE CA (1947 TO DATE)  
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1 REFERENCES IN FILE CAPLUS (1947 TO DATE)

REFERENCE 1: 122:222936

L6 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS on STN  
RN 1069-29-0 REGISTRY  
CN L-Cystine, dimethyl ester (9CI) (CA INDEX NAME)

Searched by M. Smith

Russel 09/914,424

OTHER CA INDEX NAMES:

CN Cystine, dimethyl ester, L- (7CI, 8CI)

OTHER NAMES:

CN Cystine dimethyl ester

FS STEREOSEARCH

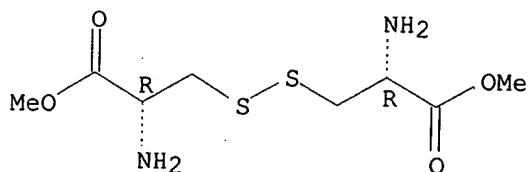
MF C8 H16 N2 O4 S2

CI COM

LC STN Files: BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMINFORMRX, CHEMLIST, DDFU, DRUGU, EMBASE, MEDLINE, RTECS\*, TOXCENTER, USPATFULL

(\*File contains numerically searchable property data)

Absolute stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

86 REFERENCES IN FILE CA (1947 TO DATE)  
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
86 REFERENCES IN FILE CAPLUS (1947 TO DATE)  
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 139:36513  
REFERENCE 2: 137:350806  
REFERENCE 3: 137:295226  
REFERENCE 4: 137:169763  
REFERENCE 5: 137:109456  
REFERENCE 6: 136:345465  
REFERENCE 7: 135:344685  
REFERENCE 8: 135:289043  
REFERENCE 9: 135:153099  
REFERENCE 10: 134:253688

Set	Items	Description
S1	216842	COLLAGEN
S2	389232	ASP OR GLU OR ASPARTIC OR ASPARTATE OR GLUTAMIC OR GLUTAMA- TE
S3	2345	S1 AND S2
S4	71081	SIDE (W) CHAIN?? OR SIDECHAIN??
S5	978991	CROSSLINK? OR CROSS (W) LINK? OR GRAFT? OR ADHESI????
S6	137153	MERCAPTO?? OR THIOL?? OR MERCAPTOAMINO?
S7	47	S3 AND S4
S8	691	S3 AND S5
S9	16	S3 AND S6
S10	63	S7 OR S9
S11	54	S10 NOT (PY=2003 OR PY=2001 OR PY=2002 OR PC=US OR PC=EP OR PC=WO)
S12	36	RD S11 (unique items)
?		

B 155,5,399  
Checked 512  
JER  
9/3/2003

L Number	Hits	Search Text	DB	Time stamp
1	2	(constancis-alain\$ or meyhueix-remi\$).in.	USPAT; US-PGPUB	2003/08/04 17:25
2	6	(constancis-a\$ or meyhueix-r\$).in.	EPO; JPO; DERWENT	2003/08/04 17:26

checked L1, L2

JR

8-9-2003